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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,966	04/13/2004	Heinrich Franz Klostermann	A-75035	5319
40461	7590	11/16/2004	EXAMINER	
EDWARD S. WRIGHT 1100 ALMA STREET, SUITE 207 MENLO PARK, CA 94025			NGUYEN, HOANG M	
			ART UNIT	PAPER NUMBER
			3748	
DATE MAILED: 11/16/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/823,966	KLOSTERMANN, HEINRICH FRANZ	
Examiner	Art Unit		
Hoang M Nguyen	3748		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-27 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-27 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 07/12/04. 5) Notice of Informal Patent Application (PTO-152)
6) Other: ____ .

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-17, 19-20, are rejected under 35 U.S.C. 102(b) as being anticipated by US 4416113 (Portillo).

Portillo discloses an internal expansion engine using non-combustible operating fluid for driving a piston 12, the output of said piston is connected to a crankshaft.

Regarding claims 7, 16, please note all generators have those basis elements such as magnetic material and coil.

Claims 1-4, 6-17, 19-20, are rejected under 35 U.S.C. 102(b) as being anticipated by US 4428193 (Papp).

Papp discloses an internal expansion engine using non-combustible operating fluid for driving a piston (39A, B), the output of said piston is connected to a crankshaft. RF energy is used to combust the gas. Regarding claims 7, 16, please note all generators have those basis elements such as magnetic material and coil.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 21-27, are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 4428193 (Papp) in view of U.S. 2984067 (Morris). Papp discloses all the claimed subject matter as set forth above, but does not disclose the means for returning including a second chamber/piston. Morris is relied upon to disclose it's well known to have a crankshaft 10 with cylinders 14, 15, mounted opposite to each other and being used as return means to each other. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to mount the pistons in Papp opposite to each other as taught by Morris for the purpose of more effectively returning the pistons to the top dead center position. Regarding claim 27, it would have been obvious to use a check valve instead of normal poppet valve in Papp for the purpose of preventing backflow.

Claim 18 is rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 4428193 (Papp. Papp discloses all the claimed subject matter as set forth above, but does not disclose the check valve. However, it would have been obvious to use a check valve instead of normal poppet valve in Papp for the purpose of preventing backflow.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Leonardi, Kershaw, Wilson, Khuns, and Stone et al disclose heat engines using pistons mounted in parallel.

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (703) 308-3477. The examiner can normally be reached on Monday--Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion, can be reached on (703)-308-2623. The fax phone number for the Examiner is (703) 872-9302 for regular communication, and (703) 872-9303 for after final communication.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0861.

HOANG NGUYEN
PRIMARY EXAMINER
ART UNIT 3748

Hoang Minh Nguyen
11/13/04